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AF1 2676-

Patent

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Art Unit:	2676
Confirmation 1	
Confirmation No.: 5421	

# APPEAL BRIEF UNDER 37 C.F.R. § 41.37(a)

This is an appeal to the Board of Patent Appeals and Interferences from the decision of the Examiner of Group 2676, dated August 10, 2004, which finally rejected Claims 1-56 in the above-identified application. This Appeal Brief is hereby submitted pursuant to 37 C.F.R. § 41.37(a).

FIRST CLASS CERTIFICATE OF MAILING
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to Mail Stop Aprea Brief- Patents, Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450 on
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Alexandria, VA 22313-1450

### I. REAL PARTY IN INTEREST

The real parties in interest are the assignees of the full interest in the invention, Sony Corporation, 7-35 Kitashinagawa, 6-Chome, Shinagawa-Ku, Tokyo, Japan, and Sony Electronics, Inc., 1 Sony Drive, Park Ridge, New Jersey 07656.

#### II. RELATED APPEALS AND INTERFERENCES

To the best of Appellant's knowledge, there are no appeals or interferences related to the present appeal that will directly affect, be directly affected by, or have a bearing on the Board's decision in the instant appeal.

### III. STATUS OF THE CLAIMS

Claims 1-56 are pending in the application and were finally rejected in an Office Action mailed August 10, 2004. Claims 1-56 are the subject of this appeal. A copy of Claims 1-56 as they stand on appeal are set forth in Appendix A.

#### IV. STATUS OF AMENDMENTS

No amendments have been submitted subsequent to the Final Office Action mailed August 10, 2004.

### V. SUMMARY OF CLAIMED SUBJECT MATTER

Appellant's claims 1-56 are directed to creating autocrop (automatic cropping) data for each image of a sequence of images. The claimed invention provides for automatically reading images from a sequence of images, automatically cropping each of the images to produce active region data for the current image, and automatically designating key frames in the sequences of images. Key frames are image frames of a sequence of images which are important to the sequence of images and include the first image of a sequence of images, and image frames which are substantially different from the prior image frame (Specification, page 7, lines 34-37; Figure 3, 38).

Independent claim 1 claims a method in which autocrop data for each image of a sequence of images is prepared. Each image comprises a frame of video data. Autocrop data for each key frame of the sequence of images is stored. Independent claims 15 and

29 are machine readable medium and system claims corresponding to independent claim 1.

Independent claim 43 claims an apparatus comprising means for preparing autocrop data for each image of a sequence of images (Specification, page 7, lines 34-37; Figure 3, 38), each image comprising a frame of video data (Specification, page 5, lines 7-14), and means for storing autocrop data for each key frame of the sequences of images (Specification, page 9, lines 8-12; Figure 3, 60).

#### VI. GROUNDS OF REJECTIONS TO BE REVIEWED ON APPEAL

I. Whether Claims 1-56 are patentable under 35 U.S.C. § 102(b) over U.S. Patent 5,729,673 to Cooper et al. (hereinafter Cooper).

#### VII. ARGUMENT

I. Claims 1-56 are patentable under 35 U.S.C. § 102(b) over Cooper.

Cooper is directed to a user interface for creating three-dimensional effects or manipulations of a projection surface relative to a display surface. The user interface includes a key frame time line that displays several key frame indicators. The key frames can be inserted by an editor, or provided in predetermined default positions along the key frame time line. To create an effect, a user selects a key frame to perform operations including positioning, rotating, cropping, or scaling the projection surface. Cropping of the key frame projection surface is performed manually by the user with a crop handle. Once all key frames have been manipulated as desired by the user, the effect parameters are stored, and the entire effect may be displayed by interpolating frames between the defined key frames.

# A. Claims 1, 8, 15, 22, 29, 36, 43 and 50 are patentable under 35 U.S.C. § 102(b) over Cooper.

Claims 1, 8, 15, 22, 29, 36, 43 and 50 stand or fall together. Claim 1 is the representative claim.

Independent claim 1 includes the limitation of storing autocrop (automatic cropping) data for each key frame of a sequence of images. Cooper does not disclose this

limitation. Appellant notes that the claim term "autocrop" is synonymous with "automatic cropping," as supported throughout Appellant's Specification, in particular at page 6, line 36 – page 7, line 6.

The Examiner has asserted that "Cooper teaches the computer performing the cropping for current key frame" (Final Office Action mailed August 10, 2004, Response to Arguments, page 4, line 9). Cooper's disclosure does not support such an interpretation. Numerous references are made in Cooper that describe a human user manually performing a cropping operation on a key frame. In part, Cooper discloses that a user manually crops a projection surface of a key frame by manipulating a crop handle displayed on a computer monitor to adjust the portion of the image on the projection surface (Cooper, col. 9, lines 18-30). Further, at column 5, lines 44-52, Cooper states that "after selecting the current key frame (step 52), the editor can...crop the projection surface for the current key frame..." Appellant submits that Cooper's reference to an "editor" must be interpreted as a human user, not a computer. For example, at col. 6, lines 45-46, Cooper states that "if the editor is not done with the desired effect (step 70), he or she can decide..." Thus, Cooper's manual cropping operation cannot be equated to Appellant's claimed preparing autocrop data, which is subsequently stored.

Additionally, Cooper does not disclose Appellant's claimed key frame. The words of the claim must be given their plain meaning as understood in the art unless the specification provides a different definition. The claim term "key frame" is a well-known term of art in the field of film and video, and is defined as a frame of a film or video that contains significant video data. Appellant has used the term in the Specification consistently with its well-known meaning in the art. See, for example, Appellant's Specification at page 6, lines 27-33. In addition, Appellant's Specification states that a current frame is designated as a key frame if "the current image is a first image, if the active region of the current image is not inside the prior image's active region, or if smoothing is needed" (Specification, page 8, lines 31-33).

In contrast, Cooper's key frames correspond to specific frames at a point in time in an effect, and designate three-dimensional positions along a motion path that a projection surface will take as an effect is displayed (Cooper, col. 5, lines 11-13; col. 9, lines 55-58; col. 10, lines 1-5). Cooper does not disclose that a frame selected for

cropping must be any of a first image of a sequence of images, an image which contains an active region outside of the prior image's active region, or an image which requires smoothing. Therefore, Cooper does not disclose a key frame as the term is used by Appellant and as is understood in the art. Furthermore, identity of terminology between Cooper and Appellant's claimed invention, alone, does not establish anticipation. Rather, the Examiner must consider the context of Cooper's use of the term "key frame," and in doing so, the Examiner should have recognized that Cooper's key frame is not equivalent to Appellant's claimed key frame. Accordingly, claim 1 is not anticipated by Cooper under 35 U.S.C. § 102(b), and the rejection of claims 1, 8, 15, 22, 29, 36, 43 and 50 should be withdrawn.

# B. Claims 2-7, 13, 14, 16-21, 27, 28, 30-35, 41, 42, 44-49, 55 and 56 are patentable under 35 U.S.C. § 102(b) over Cooper.

Claims 2-7, 13, 14, 16-21, 27, 28, 30-35, 41, 42, 44-49, 55 and 56 stand or fall together. Claim 2 is the representative claim.

Claim 2 depends from claim 1, and includes the further limitation that preparing autocrop data comprises determining the active region of a current image of the sequence of images. Appellant's Specification describes an active region as a region surrounded by pixels that are fully transparent or pixels that have no opacity. An active region may also be a region surrounded by pixels that are outside a certain opacity threshold that may be either pre-defined by the system or user defined. See, for example, Specification at page 9, lines 13-18, and Figures 4A and 4B.

As discussed above, Appellant submits that Cooper does not disclose the claimed limitation of preparing autocrop data, nor does Cooper disclose the claimed key frames. Furthermore, Appellant submits that Cooper does not disclose claim 2's limitation of determining an active region of a current image. The Examiner has referred to column 5, lines 15-65 of Cooper as anticipating this limitation. However, this section of Cooper discloses three-dimensional manipulations for a projection surface of a selected key frame, and does not disclose determining an active region, as claimed by Appellant. Additionally, Appellant submits that Cooper, as a whole, does not disclose the claimed limitation of determining an active region. Cooper's disclosure does not even discuss

pixels, transparency, or opacity, and thus cannot be interpreted to disclose determining an active region, as claimed.

Accordingly, claim 2 is not anticipated by Cooper under 35 U.S.C. § 102(b), and the rejection of claims 2-7, 13, 14, 16-21, 27, 28, 30-35, 41, 42, 44-49, 55 and 56 should be withdrawn.

# C. Claims 9-12, 23-26, 37-40 and 51-54 are patentable under 35 U.S.C. § 102(b) over Cooper.

Claims 9-12, 23-26, 37-40 and 51-54 stand or fall together. Claim 9 is the representative claim.

Claim 9 depends from claim 1, and includes the further limitations that a current image is designated as a key frame if it is the first frame of the sequence of images, if an active region of the current image is outside the active region of a prior image, or if smoothing is needed.

As discussed above, Appellant submits that Cooper does not disclose the claimed limitation of preparing autocrop data, nor does Cooper disclose the claimed key frames. Furthermore, Appellant submits that Cooper does not disclose claim 9's limitations of designating a key frame. Cooper's key frames are either manually selected by a user, or are selected by default (Cooper, col. 5, lines 5-25 and lines 44-45). Cooper does not disclose that a frame's position in a sequence of images is considered in selecting a key frame. Nor does Cooper disclose that an active region of an image is considered in selecting a key frame. Furthermore, Cooper does not disclose that smoothing is considered in selecting a key frame. Therefore, Cooper cannot be interpreted as disclosing the limitations of claim 9.

Accordingly, claim 9 is not anticipated by Cooper under 35 U.S.C. § 102(b), and the rejection of claims 9-12, 23-26, 37-40 and 51-54 should be withdrawn.

### VIII. CONCLUSION

For the reasons stated above, the Examiner has failed to establish that the claims 1-56 are anticipated by Cooper under 35 U.S.C. § 102(b). Appellant respectfully requests

that the Board reverse the rejections of the claims 1-56 under 35 U.S.C. § 102(b) and direct the Examiner to enter a Notice of Allowance for Claims 1-56.

# Fee for Filing a Brief in Support of Appeal

Enclosed is a check in the amount of \$500.00 to cover the fee for filing a brief in support of an appeal as required under 37 C.F.R. § 1.17(c) and 41.20(b)(2).

# **Deposit Account Authorization**

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Appellant hereby requests such extension.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 1/10/05

Customer No. 008791 12400 Wilshire Boulevard Seventh Floor Los Angeles, CA 90025-1026 (408) 720-8300 Jeffery Scott Heileson Actorney for Appellant Registration No. 46,765

Patent

Matty Docket No. 080398.P288

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re Application of:	)	Examiner:	Tran, Tam D.
Samra, Sukendeep	)	Art Unit:	2676
Serial No. 09/665,721	)	Confirmation	No.: 5421
Filed: September 18, 2000	)		
For: SYSTEM AND METHOD FOR DYNAMIC AUTOCROPPING OF IMAGES	) ) _)		
Mail Stop Appeal Brief- Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450			

# APPENDIX A FOR APPEAL BRIEF UNDER 37 C.F.R. § 41.37(A)

1. A method comprising:

preparing autocrop data for each image of a sequence of images, each image comprising a frame of video data; and

storing autocrop data for each key frame of the sequence of images.

- 2. The method of Claim 1 wherein preparing autocrop data comprises: determining the active region of a current image of the sequence of images.
- 3. The method of Claim 2 wherein determining the active region comprises: selecting a portion of the current image as the active region of the current image such that all pixels outside the active region have no opacity.
- 4. The method of Claim 3 wherein selecting a portion comprises:

locating a first vertical line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

locating a second vertical line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image;

locating a first horizontal line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

locating a second horizontal line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image; and

storing data specifying the active region of the current image.

#### 5. The method of Claim 4 wherein

locating the first vertical line and locating the second vertical line are performed before locating the first horizontal line and locating the second horizontal line; and

locating the first horizontal line and locating the second horizontal line each comprise examining pixels between the first vertical line and the second vertical line.

#### 6. The method of Claim 4 wherein

locating the first horizontal line and locating the second horizontal line are performed before locating the first vertical line and locating the second vertical line; and locating the first vertical line and locating the second vertical line each comprise examining pixels between the first horizontal line and the second horizontal line.

7. The method of Claim 4 wherein storing data specifying the active region of the current image comprises:

storing the x coordinate of the first vertical line, the x coordinate of the second vertical line, the y coordinate of the first horizontal line, and the y coordinate of the second horizontal line.

8. The method of Claim 1 further comprising:
determining which images of the sequence of images are key frames.

9. The method of Claim 8 wherein determining comprises:

determining whether the current image is the first frame of the sequence of images, and, if so, designating the current image as a key frame;

determining whether the active region of the current image is outside the active region of a prior image, and, if so, designating the current image as a key frame; and determining whether smoothing is needed, and, if so, designating the current image as a key frame.

10. The method of Claim 9 wherein determining whether smoothing is needed comprises:

calculating the difference in area between the active region of the current image and the active region of the prior image; and comparing the difference in area with a smoothing factor.

- 11. The method of Claim 10 wherein the smoothing factor is a numerical value set by a user.
- 12. The method of Claim 9 wherein the active region is a portion of any image such that all pixels outside the active region of the image have no opacity.
- 13. The method of Claim 2 further comprising: adding a boundary to the active region of the current image.
- 14. The method of Claim 13 wherein the boundary is a numerical value set by a user.
- 15. A machine readable medium having stored thereon instructions which when executed by a processor cause the machine to perform operations comprising:

preparing autocrop data for each image of a sequence of images, each image comprising a frame of video data; and

storing autocrop data for each key frame of the sequence of images.

16. The machine readable medium of Claim 15 wherein preparing autocrop data causes the machine to perform operations comprising:

determining the active region of a current image of the sequence of images.

17. The machine readable medium of Claim 16 wherein determining the active region data causes the machine to perform operations comprising:

selecting a portion of the current image as the active region of the current image such that all pixels outside the active region have no opacity.

18. The machine readable medium of Claim 17 wherein selecting a portion causes the machine to perform operations comprising:

locating a first vertical line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

locating a second vertical line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image;

locating a first horizontal line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

locating a second horizontal line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image; and

storing data specifying the active region of the current image.

19. The machine readable medium of Claim 18 wherein:

locating the first vertical line and locating the second vertical line are performed before locating the first horizontal line and locating the second horizontal line; and

locating the first horizontal line and locating the second horizontal line each comprise examining pixels between the first vertical line and the second vertical line.

20. The machine readable medium of Claim 18 wherein:

locating the first horizontal line and locating the second horizontal line are performed before locating the first vertical line and locating the second vertical line; and

locating the first vertical line and locating the second vertical line each comprise examining pixels between the first horizontal line and the second horizontal line.

21. The machine readable medium of Claim 18 wherein storing data specifying the active region of the current image causes the machine to perform operations comprising:

storing the x coordinate of the first vertical line, the x coordinate of the second vertical line, the y coordinate of the first horizontal line, and the y coordinate of the second horizontal line.

22. The machine readable medium of Claim 15 having stored thereon further instructions which when executed by the processor cause the machine to perform further operations comprising:

determining which images of the sequences of image are key frames.

23. The machine readable medium of Claim 22 wherein determining causes the machine to perform operations comprising:

determining whether the current image is the first frame of the sequence of images, and, if so, designating the current image as a key frame;

determining whether the active region of the current image is outside the active region of a prior image, and, if so, designating the current image as a key frame; and

determining whether smoothing is needed, and, if so, designating the current image as a key frame.

24. The machine readable medium of Claim 23 wherein determining whether smoothing is needed causes the machine to perform operations comprising:

calculating the difference in area between the active region of the current image and the active region of the prior image; and

comparing the difference in area with a smoothing factor.

25. The machine readable medium of Claim 24 wherein the smoothing factor is a numerical value set by a user.

- 26. The machine readable medium of Claim 23 wherein the active region is a portion of any image such that all pixels outside the active region of the image have no opacity.
- 27. The machine readable medium of Claim 16 having stored thereon further instructions which when executed by the processor cause the machine to perform further operations comprising:

adding a boundary to the active region of the current image.

- 28. The machine readable medium of Claim 13 wherein the boundary is a numerical value set by a user.
- 29. A system comprising:

a processor coupled to a bus;

a memory coupled to the bus;

a storage device coupled to the bus, the storage device having stored thereon instructions which when executed by the processor cause the system to perform operations comprising:

preparing autocrop data for each image of a sequence of images, each image comprising a frame of video data; and

storing autocrop data for each key frame of the sequence of images on the storage device.

30. The system of Claim 29 wherein preparing autocrop data causes the system to perform operations comprising:

determining the active region of a current image of the sequence of images.

31. The system of Claim 30 wherein determining the active region data causes the system to perform operations comprising:

selecting a portion of the current image as the active region of the current image such that all pixels outside the active region have no opacity.

32. The system of Claim 31 wherein selecting a portion causes the system to perform operations comprising:

locating a first vertical line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

locating a second vertical line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image;

locating a first horizontal line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

locating a second horizontal line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image; and

storing data specifying the active region of the current image.

# 33. The system of Claim 32 wherein:

locating the first vertical line and locating the second vertical line are performed before locating the first horizontal line and locating the second horizontal line; and

locating the first horizontal line and locating the second horizontal line each comprise examining pixels between the first vertical line and the second vertical line.

# 34. The system of Claim 32 wherein:

locating the first horizontal line and locating the second horizontal line are performed before locating the first vertical line and locating the second vertical line; and locating the first vertical line and locating the second vertical line each comprise

examining pixels between the first horizontal line and the second horizontal line.

35. The system of Claim 32 wherein storing data specifying the active region of the current image causes the system to perform operations comprising:

storing the x coordinate of the first vertical line, the x coordinate of the second vertical line, the y coordinate of the first horizontal line, and the y coordinate of the second horizontal line.

36. The system of Claim 29 having further instructions which when executed by the processor cause the system to perform further operations comprising:

determining which images of the sequence of images are key frames.

37. The system of Claim 36 wherein determining causes the system to perform operations comprising:

determining whether the current image is the first frame of the sequence of images, and, if so, designating the current image as a key frame;

determining whether the active region of the current image is outside the active region of a prior image, and, if so, designating the current image as a key frame; and determining whether smoothing is needed, and, if so, designating the current image as a key frame.

38. The system of Claim 37 wherein determining whether smoothing is needed causes the system to perform operations comprising:

calculating the difference in area between the active region of the current image and the active region of the prior image; and

comparing the difference in area with a smoothing factor.

- 39. The system of Claim 37 wherein the active region is a portion of any image such that all pixels outside the active region of the image have no opacity.
- 40. The system of Claim 39 having stored thereon further instructions which when executed by the processor cause the system to perform further operations comprising: adding a boundary to the active region of the current image.
- 41. The system of Claim 29 wherein reading at least one sequence of images comprises:

transferring at least one sequence of images from the storage device to the memory.

42. The system of Claim 29 wherein reading at least one sequence of images comprises:

transferring at least one sequence of images from a remote storage device via a network.

43. An apparatus comprising:

means for preparing autocrop data for each image of a sequence of images, each image comprising a frame of video data; and

means for storing autocrop data for each key frame of the sequences of images.

44. The apparatus of Claim 43 wherein the means for preparing autocrop data comprises:

means for determining the active region of a current image of the sequence of images.

45. The apparatus of Claim 44 wherein the means for determining the active region comprises:

means for selecting a portion of the current image as the active region of the current image such that all pixels outside the active region have no opacity.

46. The apparatus of Claim 45 wherein the means for selecting a portion comprises: means for locating a first vertical line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

means for locating a second vertical line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image;

means for locating a first horizontal line of pixels with at least one pixel having non-zero opacity closest to the origin of the current image;

means for locating a second horizontal line of pixels with at least one pixel having non-zero opacity furthest from the origin of the current image; and

means for storing data specifying the active region of the current image.

### 47. The apparatus of Claim 46 wherein

the means for locating the first vertical line and the means for locating the second vertical line process the current image before the means for locating the first horizontal line and the means for locating the second horizontal line; and

the means for locating the first horizontal line and the means for locating the second horizontal line each comprise means for examining pixels between the first vertical line and the second vertical line.

### 48. The apparatus of Claim 46 wherein

the means for locating the first horizontal line and the means for locating the second horizontal line process the current image before the means for locating the first vertical line and the means for locating the second vertical line; and

the means for locating the first vertical line and the means for locating the second vertical line each comprise means for examining pixels between the first horizontal line and the second horizontal line.

49. The apparatus of Claim 46 wherein the means for storing data specifying the active region of the current image comprises:

means for storing the x coordinate of the first vertical line, the x coordinate of the second vertical line, the y coordinate of the first horizontal line, and the y coordinate of the second horizontal line.

- 50. The apparatus of Claim 43 further comprising:

  means for determining which images of the sequence of images are key frames.
- 51. The apparatus of Claim 50 wherein the means for determining comprises: means for determining whether the current image is the first frame of the sequence of images, and, if so, designating the current image as a key frame;

means for determining whether the active region of the current image is outside the active region of a prior image, and, if so, designating the current image as a key frame; and means for determining whether smoothing is needed, and, if so, designating the current image as a key frame.

52. The apparatus of Claim 51 wherein the means for determining whether smoothing is needed comprises:

means for calculating the difference in area between the active region of the current image and the active region of the prior image; and means for comparing the difference in area with a smoothing factor.

- 53. The apparatus of Claim 52 wherein the smoothing factor is a numerical value set by a user.
- 54. The apparatus of Claim 51 wherein the active region is a portion of any image such that all pixels outside the active region of the image have no opacity.
- 55. The apparatus of Claim 44 further comprising:
  means for adding a boundary to the active region of the current image.
- 56. The apparatus of Claim 55 wherein the boundary is a numerical value set by a user.



**FEE TRANSMITTAL FOR FY 2005** 

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

TOTAL AMOUNT OF PAYMENT (\$) 500.00 Complete if Known: Application No. 09/665,721 9/18/00 Filing Date \_ First Named Inventor Samra Examiner Name Tran, T. Art Unit 2676 80398.P288 Attorney Docket No. Applicant claims small entity status. See 37 CFR 1.27. **METHOD OF PAYMENT** (check all that apply) Money Order \_\_\_\_ None \_\_\_\_ Other (please identify) Check \_\_\_\_ Credit Card **Deposit Account** Deposit Account Number: <u>02-2666</u> **Deposit Account Name:** The Director is Authorized to do the following with respect to the above-identified Deposit Account: Charge fee(s) indicated below. Charge any additional fee(s) or underpayment of fee(s) during the pendency of this application. Charge fee(s) indicated below except for the filing fee Credit any overpayments. Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged. Warning: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **Large Entity Small Entity** Fee Fee Fee Fee Fees Paid (\$) (\$) Fee Description Code (\$) Code Utility application filing fee 300 2011 150 1011 1,000/500 500 2111 250 Utility search fee 1111 1311 200 2311 100 **Utility examination fee** 1012 200 2012 100 Design application filing fee 100 2112 50 Design search fee 430/215 1112 1312 130 2312 65 Design examination fee 200 2013 100 Plant filing fee 1013 1113 Plant search fee 660/330 300 2113 150 Plant examination fee 1313 160 2313 80 2004 150 Reissue filing fee 1004 300 400/700 1114 500 2114 250 Reissue search fee 600 2314 300 Reissue examination fee 1314 200 100 Provisional application filing fee 1005 2005 SUBTOTAL (1) \$\_\_\_\_0

2. EXCESS CLAIM FEES					
HP = highest number of total cla Independent Claims					
Large Entity         Small Entity           Fee         Fee         Fee           Code         (\$)         Code         (\$)           1202         50         2202         25           1201         200         2201         100           1203         360         2203         180           1204         200         2204         100           1205         50         2205         25	Fee Description Each claim over 20 Each independent claim over 3 Multiple dependent claims, if not paid Reissue: each claim over 20 and more than in the original patent Reissue: each independent claim more than in the original patent SUBTOTAL (2) \$0				
3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Number of each add'I Fee from					
	Sheets 50 or fraction thereof below Fees paid (\$)  / 50 = (round up to whole number) X				
Large Entity         Small Entity           Fee         Fee         Fee           Code         (\$)         Code         (\$)           1081         250         2081         125           1082         250         2082         125           1083         250         2083         125           1084         250         2084         125	Fee Description: Application size fee for each additional group of 50 sheets beyond initial 100 sheets (count spec & drawings except sequences & program listings):  Utility Design Plant Reissue				
	SUBTOTAL (3) \$0				

#### FEE CALCULATION (continued) 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) **Small Entity** Fee Fee Fee Fee Code (\$) Code (\$) **Fee Description** Surcharge - late filing fee or oath 1051 130 2051 65 Surcharge - late provisional filing fee or cover sheet 25 1052 50 2052 Non-English specification 1053 130 1053 130 For filing a request for ex parte reexamination 2,520 1812 2,520 1812 8,800 Request for inter parties reexamination 1813 8,800 1813 1804 920\* Requesting publication of SIR prior to Examiner action 1804 920\* 1,840\* Requesting publication of SIR after Examiner action 1805 1.840\* 1805 120 2251 60 Extension for reply within first month 1251 1252 450 2252 225 Extension for reply within second month 1253 1.020 2253 510 Extension for reply within third month Extension for reply within fourth month 1254 1.590 2254 795 1.080 Extension for reply within fifth month 1255 2,160 2255 2401 250 Notice of Appeal 1401 500 500.00 1402 500 2402 250 Filing a brief in support of an appeal 1403 1,000 2403 500 Request for oral hearing Petition to institute a public use proceeding 1,510 1451 1451 1,510 250 Petition to revive - unavoidable 1452 500 2452 Petition to revive - unintentional 1453 1,500 2453 750 2501 700 Utility issue fee (or reissue) 1501 1,400 400 Design issue fee 1502 800 2502 550 Plant issue fee 2503 1503 1100 Petitions to the Commissioner (CFR 1.17(f) Group I) 400 1462 400 1462 Petitions to the Commissioner (CFR 1.17(g) Group II) 200 1463 200 1463 Petitions to the Commissioner (CFR 1.17(h) Group III) 130 1464 130 1464 Processing fee under 37 CFR 1.17(q) 1807 1807 50 50 1806 180 1806 180 **Submission of Information Disclosure Stmt** 40 Recording each patent assignment per 8021 40 8021 property (times number of properties) 395 1809 790 2809 For filing a submission after final rejection (see 37 CFR 1.129(a)) 1814 130 2814 65 Statutory Disclaimer For each additional invention to be examined 1810 790 2810 395 (see 37 CFR 1.129(b)) 2801 395 Request for Continued Examination (RCE) 1801 790 900 Request for expedited examination of a design 1802 900 1802 application 1504 300 300 Publication fee for early, voluntary, or normal pub. 1504 300 Publication fee for republication 1505 300 1505 130 Request for voluntary publication or republication 1803 130 1803 Processing fee under 37 CFR 1.17(i) (except provisionals) 1808 130 1808 130 Acceptance of unintentionally delayed claim for priority \_ 1454 1,370 1454 1,370 Other fee (specify) Other fee (specify) SUBTOTAL (4) \$ 500.00 \*Reduced by Basic Filing Fee Paid <u>SUBMITTED BY:</u> Typed or Printed Name: Jeff Sy S. Heilesop Signature: 46.765 Telephone Number: <u>408-720-8300</u> Reg. Number://

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450